

AC centrifugal fan

forward-curved, single-intake
with housing (flange)



G4D250-DC10-03 ebmpapst Datasheet
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Nominal data

Type	G4D250-DC10-03		
Motor	M4D094-HA		
Phase		3~	3~
Nominal voltage	VAC	400	400
Wiring		Y	Y
Frequency	Hz	50	60
Method of obtaining data		fa	ml
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	1350	1560
Power consumption	W	590	710
Current draw	A	1.17	1.26
Min. back pressure	Pa	0	150
Min. back pressure	in. wg	0	0.6
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	80	60
Starting current	A	4	3.7

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Data according to Commission Regulation (EU) 327/2011 (EN 17166)

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	37.2	34	09 Power consumption P_e	kW	0.26
02 Measurement category		A		09 Air flow q_v	m ³ /h	1060
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	334
04 Efficiency grade N		47.2	44	10 Speed (rpm) n	min ⁻¹	1445
05 Variable speed drive		No		11 Specific ratio*		1.00

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

LU-56377



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Technical description

Weight	13.4 kg
Size	250 mm
Motor size	94
Rotor surface	Painted black
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60034-1 (2010); CE
Approval	EAC



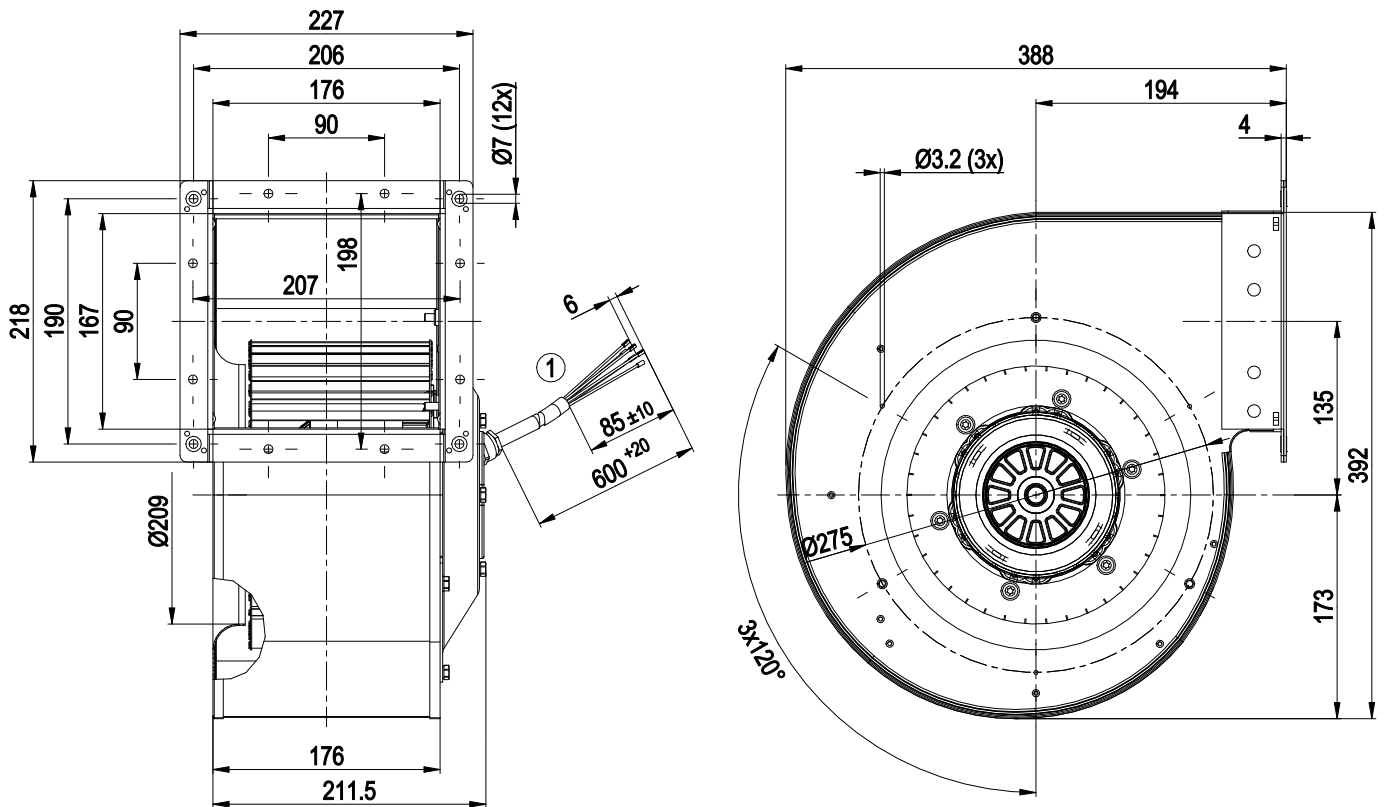
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Product drawing

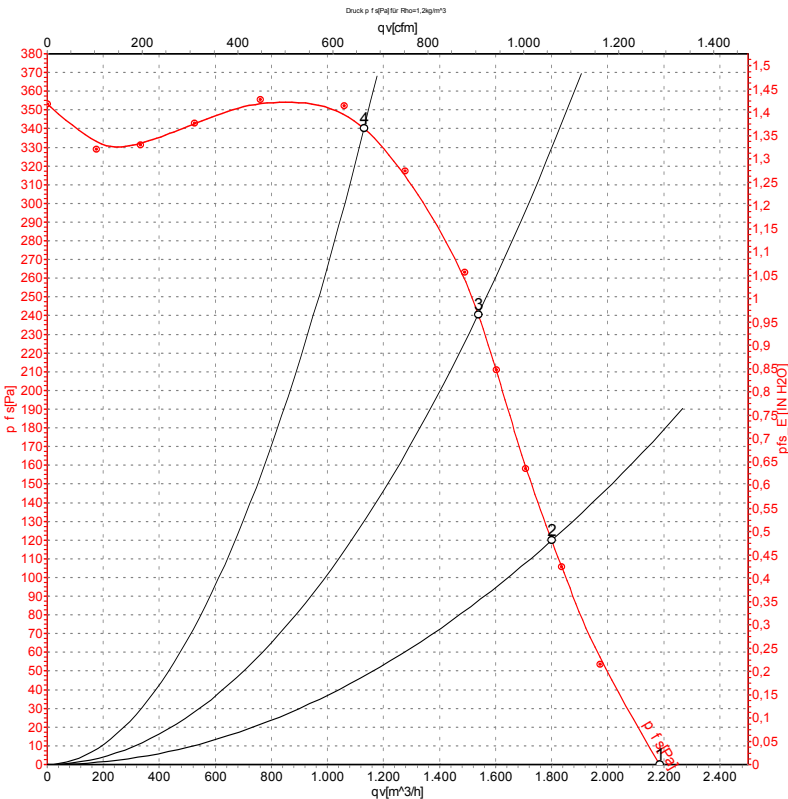


1	Cable silicone 6G 0.5 mm ²
	6x splice

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Curves: Air performance 50 Hz



Measurement: LU-56377-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P _e	I	q _V	p _{fs}	q _V	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	400	50	1350	590	1.17	2185	0	1285	0.00
2	400	50	1390	467	1.02	1800	120	1060	0.48
3	400	50	1410	391	0.93	1540	240	905	0.96
4	400	50	1440	282	0.84	1130	340	665	1.36

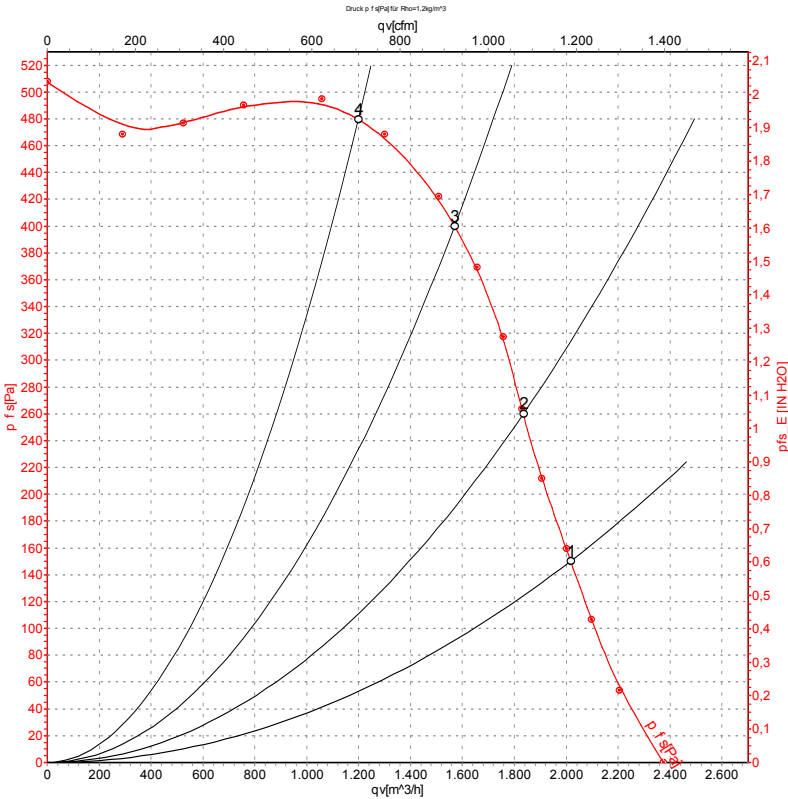
U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase



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Curves: Air performance 60 Hz



Measurement: LU-56378-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	400	60	1560	710	1.26	2015	150	1185	0.60
2	400	60	1590	635	1.14	1835	260	1080	1.04
3	400	60	1640	516	0.97	1570	400	925	1.61
4	400	60	1690	380	0.80	1200	480	705	1.93

U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

